

NEPTUNE.

Observations.

CAMBRIDGE.		On the Meridian.		(Prof. Challis.)	
1848.	Greenwich M.T.	R.A.	Obsd.—Cal ^d .	N.P.D.	Obsd.—Cal ^d .
	h m s	h m s	s	° ' "	"
July 12	14 52 57.0	22 17 48.37	—0.93	101 17 47.9	+4.3
13	48 56.8	17 44.04	—1.01	101 18 14.8	+5.5
15	14 40 56.3	22 17 35.30	—0.99		

"The observations are compared with Mr. Adams's Ephemeris, and parallax is taken into account.

HAMBURG.		Equatoreal.		(M. Rümker.)	
1848.	Hamburg M.T.	R.A.	N.P.D.		
	h m s	h m s	° ' "		
July 4	12 44 53.0	22 18 19.92	101 14 43.1		
6	12 25 51.0	22 18 12.95	101 15 29.3		

Ephemeris for Greenwich Mean Midnight. By Mr. Adams.

1848.	R.A.	N.P.D.	1848.	R.A.	N.P.D.
	h m s	° ' "		h m s	° ' "
July 1	22 18 30.41	101 13 31.3	July 26	22 16 42.92	101 24 19.9
2	27.22	51.2	27	37.59	51.3
3	23.92	14 11.7	28	32.20	25 23.1
4	20.52	32.8	29	26.75	55.2
5	17.02	54.4	30	21.24	26 27.6
6	13.42	15 16.5	31	15.68	27 0.2
7	9.72	39.2	Aug. 1	10.06	33.1
8	5.92	16 2.5	2	16 4.39	28 6.3
9	18 2.03	26.2	3	15 58.67	39.8
10	17 58.05	50.5	4	52.90	29 13.4
11	53.97	17 15.2	5	47.08	29 47.3
12	49.81	40.5	6	41.22	30 21.5
13	45.56	18 6.2	7	35.32	55.8
14	41.21	32.4	8	29.38	31 30.3
15	36.79	59.0	9	23.41	32 5.0
16	32.28	19 26.1	10	17.40	39.8
17	27.69	53.7	11	11.36	33 14.8
18	23.02	20 21.6	12	15 5.28	49.9
19	18.27	50.0	13	14 59.18	34 25.1
20	13.44	21 18.9	14	53.06	35 0.4
21	8.53	48.1	15	46.91	35 35.9
22	17 3.55	22 17.7	16	40.74	36 11.4
23	16 58.50	47.7	17	34.56	47.0
24	53.37	23 18.1	18	28.36	37 22.6
25	22 16 48.18	101 23 48.8	19	22 14 22.14	101 37 58.3

Neptune.

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1848.				1848.			
R.A.				R.A.			
N.P.D.				N.P.D.			
h	m	s	° ' "	h	m	s	° ' "
Aug. 20	22	14	15.91	Oct. 3	22	10	6.07
21			9.66	4	10		1.73
22	14		3.42	5	9		57.49
23	13		57.16	6			53.34
24			50.91	7			49.28
25			44.65	8			45.32
26			38.39	9			41.45
27			32.14	10			37.69
28			25.89	11			34.02
29			19.66	12			30.46
30			13.44	13			27.00
31			7.23	14			23.65
Sept. 1	13		1.05	15			20.40
2	12		54.88	16			17.26
3			48.73	17			14.23
4			42.62	18			11.32
5			36.52	19			8.51
6			30.46	20			5.82
7			24.43	21			3.25
8			18.43	22	9		0.79
9			12.47	23	8		58.44
10			6.55	24			56.22
11	12		0.67	25			54.12
12	11		54.83	26			52.13
13			49.04	27			50.27
14			43.29	28			48.53
15			37.59	29			46.91
16			31.95	30			45.42
17			26.36	31			44.06
18			20.83	Nov. 1			42.82
19			15.35	2			41.71
20			9.94	3			40.72
21	11		4.59	4			39.87
22	10		59.30	5			39.14
23			54.09	6			38.55
24			48.94	7			38.08
25			43.86	8			37.74
26			38.85	9			37.53
27			33.92	10			37.45
28			29.07	11			37.50
29			24.30	12			37.68
30			19.62	13			37.99
Oct. 1			15.02	14			38.44
2	22	10	10.50	15	22	8	39.01

1848.	R.A.			N.P.D.			1848.	R.A.			N.P.D.		
	h	m	s	°	'	"		h	m	s	°	'	"
Nov. 16	22	8	39.71	102	9	25.2	Nov. 24	22	8	50.12	101	8	21.4
17			40.55			19.8	25			52.02			8 10.1
18			41.52			13.6	26			54.04			7 58.2
19			42.63			6.7	27			56.20			45.5
20			43.86			8 59.1	28	8		58.49			32.1
21			45.23			50.8	29	9		0.90			18.0
22			46.73			41.7	30	22	9	3.45	102	7	3.1
23	22	8	48.36	102	8	31.9							

Horizontal Parallax.

July 1, 0".29; Sept. 1, 0".30; Nov. 1, 0".29.

METIS.

Observations.

MARKREE. Meridian Circle. (E. J. Cooper, Esq. & Mr. Graham.)

Greenwich M.T.	R.A.			Decl.			Obsr.	Obsn.—Ephem.	
1848.	h	m	s	°	'	"		s	"
April 26	54	77	14	14	55	29.94	—12 31 37.9	A.G.	—0.14 +0.5
May 5	51	68	92	46	28	56	12 7 37.8	,,	—0.11 +0.5
	9	50	3206	42	29	15	11 57 40.7	,,	0.00 —0.1
	10	49	9796	41	30	31	55 19.6	,,	+0.12 —1.4
	12	49	2931	39	33	80	50 43.0	,,	—0.01 +0.5
	13	48	9599	38	36	48	48 31.5	,,	—0.04 0.0
	16	47	9386	35	48	93	42 21.7	,,	+0.06 —0.9
	19	46	9431	33	8	59	36 51.7	,,	—0.11 —0.7
	22	45	9488	30	36	86	32 8.0	,,	—0.44 —0.6
	26	44	6062	27	30	60.2	27 10.5	E.J.C.	—0.51 —2.1
	29	43	6763	25	23	90	24 30.2	,,	—0.66 —1.2
June 2	42	40	54	14	22	54.15	—11 22 28.2	,,	—0.91 +1.9

May 5. Very faint. Did not appear larger than a 10th mag. star.
 9. Very faint.
 10. Excessively faint.
 13. Do.
 16. Very difficult. Near the moon. Got only three wires. Corrected an error of 2^s in the third wire.
 19. Well shewn, and well taken.
 22. Faint.
 26. Seen with extreme difficulty. Got but two wires. The second of these seems to have been an illusion, and was rejected.
 29. Extremely faint. Got the whole seven wires; but as the centre wire was marked "very doubtful" in the observing book, and differs 1^s from the mean, it was omitted in the reduction.
 June 2. Extremely faint.